

2008

## Beginner School 2008 - Weed Management in Cranberry Production - 101

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# Weed Management in Cranberry Production - 101

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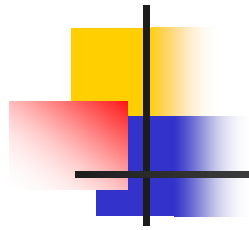




# First Step

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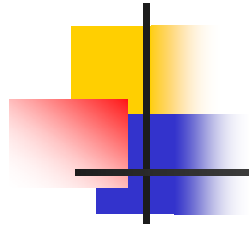
- Correctly ID the weed you want to control !!
- Consult Chart Book for available choices.



# Basic Choices

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- Preemergence herbicides
- Postemergence herbicides
- Flooding
- Hand-weeding



# Herbicide use in cranberry

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- Preemergence herbicides

- Casoron
- Evital
- Devrinol
- Princep
- Kerb (EE)

- Postemergence herbicides

- RoundUp
- Poast / Select
- Stinger
- Callisto '08



# Priority Groupings

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- Potential for yield loss
- Rate of spread
- Difficulty of control



# Priority One

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- Zero threshold
- Causes severe loss
- Spreads rapidly
- Difficult to control

**Poison ivy, dewberries, Smilax,  
dodder, wild bean**



# Dewberry





# Smilax (sawbrier)





# Poison ivy



# Dodder







# Priority Two

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- Serious concern
- Less damaging than P1
- Spreads rapidly
- Difficult to control

**Loosestrife, NLGR, asters**



# Loosestrife





# Goldenrod





# Priority Three

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- Of less importance
- Low yield impact
- Spreads slowly
- Control not as difficult  
as P1 and P2

**sedges, grasses, rushes, cinquefoil**



# Nut sedge



# Cinquefoil





# Red maple





# Priority Four

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- **Lowest concern**
- **Found mostly on edges and bare spots**
- **Fairly easy to control**

Moss, clover, violets, ferns



# White clover

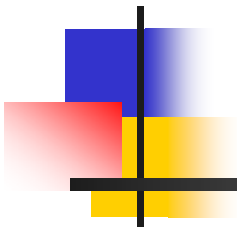




# Sensitive fern



# PREEMERGENCE HERBICIDES





# Casoron (dichlobenil)

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- Controls grasses, sedges, broadleaf weeds, dodder
- Apply up to 100 lb/A in a 12-month period.
  - Multiple applications (3-6 wk btw)
  - Water in IMMEDIATELY!



# Casoron (dichlobenil)

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- Do not use on new plantings.
- Do not use prior to / on mowed vines.
- Do not sand on top of Casoron.
- Fall or spring applications ok.
- Apply by ground or air.



# Devrinol (napropamide)

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- Controls grasses, nut sedge, annual BL weeds (ragweed).
- Use on new plantings: 6 lb/A.
- Established bogs: 12-18 lb/A
  - 8-12 lb/A for mineral beds
- Water in ASAP.





# Devrinol (napropamide)

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- Works best when applied to weed-free surface.
- Apply by chemigation.
- Can be used on top or under sand.



# Evital (norflurazon)

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- Controls sedges, rushes, grasses
- Spring: 80 - 120 lb/A  
Fall: 120 - 160 lb/A
- Some varieties more sensitive than others (ST, MacF) .
- Injury in poorly drained areas.



# Evital (norflurazon)

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- Apply by ground or air.
- 1 appl. / 12 months permitted.
- Can apply sand on top of Evital, but watch drainage.
- Flooding after appl. can reduce effectiveness.

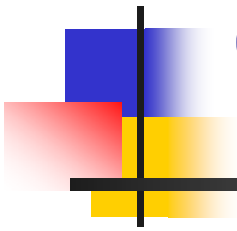


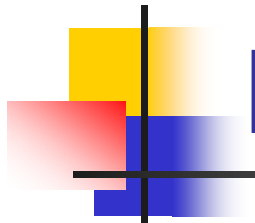
# Princep (simazine)

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- Controls grasses, annual BL (fireweed, carpetweed)
- Various rates depending on formulation.
- Do not use on young vines.
- Zone 2 restrictions.

# POSTEMERGENCE CONTROL





# RoundUp WeatherMAX

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- Kills green tissue!
- Use as a WIPE.
- Make 10%-20% solutions.
- No surfactants needed; ADD A DYE.
- 30-day PHI.
- Spray uses: ditches, post-harvest.

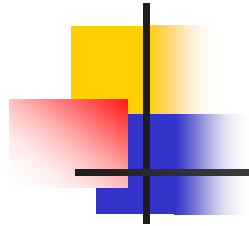




# Poast (sethoxydim)

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- Selective grass herbicide.
- No chemigation permitted!!
- Apply PRIOR to flowering.
- Works best when weeds not stressed.
- 60-day PHI.



## Poast (sethoxydim)

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- Multiple applications permitted.
- 2 oz Poast + 0.6 oz Dash HC  
OR 1.3 oz COC / gallon.
- 14-day intervals.
- Caution during hot weather.



## Select MAX (clethodim)

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- Similar to Poast except:
- Apply when weeds 2-4 inches.
- Use Non-ionic surfactant (X-77).
- 30-day PHI.
- 1.3 Tblsp Select MAX + 0.65 Tblsp NIS per gallon



# Stinger (clopyralid)

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- Asters, legumes, NLGR
- No chemigation permitted!
- Apply in spring or after fruit set.
- Can cause crop injury!
- Use lowest effective dose.
- 50-day PHI.

# Dodder (*Cuscuta gronovii*)

- Obligate parasite
- Widespread
- Causes severe yield losses





# Managing dodder

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- PREVENTION!!
  - Trash floods, inspect equipment
  - Caution when moving from infested beds to clean beds
- Herbicides
  - Scouting
  - Casoron (low rates); Kerb (section 18 permit)
- Spring floods (24-48 hr, cover tips)
- Postemergence control





# Minimal control options

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- Dewberries (prickly & bristly)
- Sawbriers (silverleaf & greenleaf)
- Poison ivy

